INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

December 2, 2003

TO: Interested Parties / Applicant

RE: Delco Electronics Corporation / 067-17932-00061

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impractible to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNTV-PMOD.doc 9/16/03

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December 2, 2003

Mr. Jeff Blankenberger
Delco Electronics Corporation
P.O. Box 9005
Kokomo, Indiana 46904

Re: 067-17932-00061
First Minor Permit Modification to:
Part 70 permit No.:T067-6505-00061

Dear Mr. Blankenberger:

Delco Electronics Corporation was issued a Part 70 operating permit (T067-6505-00061) on October 21, 2002 for an electronic circuit board production source for the automotive industry. A letter requesting changes to this permit was received on May 15, 2003. Pursuant to the provisions of 326 IAC 2-7-12, a minor permit modification to this permit is hereby approved as described in the attached Technical Support Document.

This modification consists of replacing an existing wave solder machine and changes in the VOC emission limits for the existing and new solder machines. The corresponding record keeping and reporting requirements have also been revised.

All other conditions of the permit shall remain unchanged and in effect. Please find attached a copy of the revised permit.

Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Yu-Lien Chu, ERG,1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7871 to speak directly to Ms. Chu. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original Signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

ERG/YC

cc: File - Howard County
Howard County Health Department
Air Compliance Section Inspector - Marc Goldman
Compliance Data Section - Karen Ampil
Administrative and Development -Sara Cloe
Technical Support and Modeling - Michele Boner

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PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Delco Electronics Corporation
2100 East Lincoln Road
Kokomo, Indiana 46904-9005

(herein known as the Permittee) is hereby authorizes to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T067-6505-00061	
Originally signed by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: October 21, 2002 Expiration Date: October 21, 2007

Significant Permit Modification No. 067-16294-00061, issued April 14, 2003
First Administrative Amendment No.: 067-17300-00061, issued September 10, 2003

First Minor Permit Modification No.: 067-17932-00061	Affected Pages: 6, 7, 31-33, 66, 72

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Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: December 2, 2003

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1, A.3, and A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a source which produces electronic components principally for the automotive industry.

Responsible Official:	Managing Director, Kokomo Operations
Source Address:	2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address:	P.O. Box 9005, Kokomo, Indiana 46904-9005
General Source Phone Number:	(765) 451-6738
SIC Code:	3089, 3469, 3471, 3651, 3672, 3674, 3679, 3694
County Location:	Howard
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This source which produces electronic components principally for the automotive industry consists of Plants 6, 7, and 9 (Plant ID 067-00022); Plants 8, and 10 (Plant ID 067-00023); and Fab III (Plant ID 067-00051), located respectively at 1800 - 2100 and 2150 East Lincoln Road and 2033 East Boulevard Avenue, Kokomo, Indiana.

Since these plants are located on contiguous or adjacent properties, belong to the same industrial grouping, and are under common control of the same entity, they will be considered one (1) source. One combined Part 70 Permit will be issued to Delco Electronics Corporation. The new plant ID for the combined source is 067-00061.

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(1) One (1) wave solder machine, ID #184842 (Plant 9, Dept. 270E), constructed in 1997, with a capacity of 500 boards per hour, 5.78 pounds of flux per hour, and 0.09 pounds of thinner per hour, and exhausting to stack 9-E98-1;

(2) One (1) selective soldering machine, ID #2700001 (Plant 9, Dept. 270S), constructed in 1998, with a capacity of 90 boards per hour, 0.738 pounds of flux per hour, and no thinner use, and exhausting to stack 9-F98-1;

(3) One (1) wave solder machine, ID #1015805 (Plant 7, Dept. 286), constructed in 2003, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

(4) One (1) wave solder machine, ID #181019, (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F8-1;

(5) Nine (9) soldering machines, (Tech 2000 - Dept. 9502); two (2) constructed in 1999, ID#169964 and 208554; one (1) constructed in 2001; one (1) to be constructed in 2002; two (2) to be constructed in 2003; and three (3) to be constructed in 2004; all received approval in 067-10500-00061, with a capacity of 90 boards per hour each, and exhausting to stack 9-Z21-1 and 9-Z21-2; and

(6) One (1) wave soldering machine, ID #60000984, (Plant 7, Dept. 7661), constructed in 1996, with a capacity of 450 boards per hour, and exhausting to stack 7-T18-1.

(b) One (1) surface coating system, referred to as EU_SC, with conformal coating applied to populated fiberglass circuit boards, paints applied to plastic radio and air control buttons and plastic face plates, comprised of the following emission units:

(1) Two (2) conformal coating hoods, (Plant 7, Dept. 7086), constructed in 1996, with a maximum capacity of 200 boards per hour, venting to stack 7-S18-1;

(2) Four (4) automated select conformal coaters, (Plant 7, Dept. 7130), with a maximum capacity of 222 pounds of circuit board per hour, constructed in 2002, with no control exhausting to stack 7-T22-1;

(3) One (1) conformal coater, ID #182386, (Plant 9, Dept. 7641),constructed in 1991, with a capacity of 515 boards per hour with no control, and exhausting to stack 9-C4-1;

(4) One (1) paint spray booth 1, ID #153415, (Plant 9, Dept. 962), constructed in 1985, with a maximum coating usage of 1.5 gallons per hour, with waterwalls for control, and exhausting to stack 9-C17-1; and

(5) One (1) paint booth to coat automotive plastic parts, ID #165441, (Plant 9, Dept. 964), constructed in 1993, with a maximum coating usage of 0.89 gallons per hour with waterwalls for control, and exhausting to stack 9-C15-1.

(c) One (1) combustion system, referred to as EU_CO, comprised of the following emission units:

(1) One (1) natural gas-fired boiler, referred to as Boiler #9, Plt. 6, ID #16554, constructed in 1977, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 6-K12-1;

(2) One (1) natural gas-fired boiler, referred to as Boiler #10, Plt. 6, ID #21492, constructed in 1980, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 6-K12-2;

(3) One (1) natural gas-fired boiler, referred to as Boiler #1E, Plt. 8, ID #38302, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A11-3;

(4) One (1) natural gas-fired boiler, referred to as Boiler #2E, Plt. 8, ID #13313, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A11-4;

(5) One (1) natural gas-fired boiler, referred to as Boiler #3E, Plt. 8, ID #13312, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-B11-1;

(6) One (1) natural gas-fired boiler, referred to as Boiler #1W, Plt. 8, ID #852, constructed in 1967, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A13-4;

(7) One (1) natural gas fired boiler, referred to as Boiler Clayton 8W1, Plt. 8, constructed in 1996, with a capacity of 24.5 MMBtu/hr, and exhausting to stack 8-A13-7;

(8) One (1) natural gas-fired boiler, referred to as Boiler Clayton 8W2, Plt. 8, constructed in 1996, with a capacity of 24.5 MMBtu/hr, and exhausting to stack 8-A13-8;

(9) One (1) natural gas-fired boiler, referred to as Boiler West (831), Plt. 8, ID #17383, constructed in 1980, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 8-J27-1;

(10) One (1) natural gas-fired boiler, referred to as Boiler #8W, Plt. 9, ID #840, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-2;

(11) One (1) natural gas-fired boiler, referred to as Boiler #6W, Plt 9, ID #841, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-4;

(12) One (1) natural gas-fired boiler, referred to as Boiler #5W, Plt. 9, ID #5569, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-1;

(13) One (1) natural gas-fired boiler, referred to as Boiler #3E, Plt. 9, ID #181067, constructed in 1990, with a capacity of 20.922 MMBtu/hr, and exhausting to stack 9-F10-2;

(14) One (1) natural gas-fired boiler, referred to as Boiler #2E, Plt. 9, ID #839, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-F10-5;

(15) One (1) natural gas-fired boiler with No. 2 fuel oil backup, referred to as Boiler #1, Fab III, ID #151563, constructed in 1984, with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(16) One (1) natural gas-fired boiler with No 2 fuel oil backup, referred to as Boiler #2, Fab III, ID #151562, constructed in 1984. with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(17) One (1) natural gas-fired boiler, referred to as Boiler #3, Fab III, ID #8294003, constructed in 1992, with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(18) One (1) natural gas fired Cleaver-Brooks 350 hp boiler, referred to as Boiler #1 Plt. 10, constructed in 2001, with a capacity of 14.65 MMBtu/hr, and exhausting to stack 10-E10-1;

(19) One (1) natural gas fired Cleaver-Brooks 350 hp boiler, referred to as Boiler #2 Plt. 10, ID #201182, constructed in 1995, with a capacity of 14.65 MMBtu/hr, and exhausting to stack 10-E10-1;

(20) Four (4) dynamometer testing cells, known as cells 1 through 4, constructed in 1997, each equipped with a 4,000 acfm exhaust stack, total capacity: 3.75 gallons of unleaded motor fuel burned per hour, and exhausting to stack 9-E85-1; and

(21) One (1) natural gas-fired boiler, referred to as Boiler MOS, Plt 8, ID #15917, constructed in 1977, with a capacity of 12.6 MMBtu/hr, and exhausting to stack 8-K18-1.

(d) One (1) degreasing system, referred to as EU_DG, comprised of the following emission units:

(1) Two (2) semi-aqueous cleaners for ceramic substrates, (Plant 6, Depts. 850 & 851), ID #190387 and 190388, constructed in 1993 with #190387 replaced in 2002, with a maximum throughput of 1,500 ceramic substrates each, and exhausting to stacks 6-N6-1 and 6-M19-2, respectively; and

(2) One (1) halogenated degreaser, (Plant 8, Dept. 889) ID #161437, constructed in 1987 with a maximum capacity of 750 boards per hour.

(e) One (1) quad-fine-pitch (QFP) plater with a 3400 CFM fume scrubber, constructed in 1992, referred to as EU_EP, and exhausting to stack 6-K24-3.

(f) One (1) semiconductor system, referred to as EU_CR, consisting of the following emission units:

(1) One (1) acid mixing operation for nitric, phosphoric, sulfuric, and hydrofluoric acids, constructed in 1980, with an average throughput of 9,990 gallons/yr of sulfuric acid, 3,400 gallons/yr of phosphoric acid, 7,400 gallons/yr of nitric acid, 8,000 gallons/yr of hydrofluoric acid, and 4,100 gallons/yr of acetic acid, controlled by one (1) fume scrubber, also constructed in 1980, with a maximum capacity of 25,000 CFM;

(2) One climate controlled clean room, designated as Fab I wet room, constructed in 1981, exhausting through five (5) wet scrubbers with maximum capacities of 3400 CFM, 8950 CFM, 12150 CFM, 20000 CFM, and 20000 CFM, respectively;

(3) One (1) silicon wafer coating room, designated as Fab I yellow room, constructed in 1981;

(4) One (1) climate controlled clean room, designated as Fab V wet room, constructed in 1981, exhausting through two (2) wet scrubbers with maximum capacities of 12000 CFM and 16000 CFM;

(5) One (1) silicon wafer coating room, designated as Fab V yellow room, constructed in 1984;

(6) One (1) climate controlled clean room, designated as Fab III wet room, constructed in 1984, and exhausting through four (4) wet scrubbers with maximum capacities of 40000 CFM each; and

(7) One (1) silicon wafer coating room, designated as Fab III yellow room, constructed in 1984.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour:

(1) One (1) natural gas-fired boiler referred to as Boiler TTC, ID # 9424001, constructed in 1993, with a capacity of 1.8 MMBtu/hr [326 IAC 6-2-4];

(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 [326 IAC 8-3-2] [326 IAC 8-3-5];

(1) Five (5) cold cleaners in Plant 6, constructed pursuant to CP067-3262-00022;

(2) One (1) cold cleaner in Plant 7;

(3) Four (4) cold cleaners in Plant 8;

(4) Twelve (12) cold cleaners in Plant 9; and

(5) Two (2) cold cleaners in Plant 10.

(c) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone [326 IAC 6-3-2];

(d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations [326 IAC 6-3-2]; and

(e) Sources emitting less than five (5) tons per year of PM, ten (10) tons per year of VOC, one (1) ton per year of a single HAP, and two and a half (2.5) tons per year of any combination of HAPs [326 IAC 6-3-2] [40 CFR 52, Subpart P]:

(1) One (1) wave solder machine, ID #202031, Dept, 7120, constructed in 1999;

(2) One (1) wave solder machine, Dept. 7120, constructed in 1999;

(3) One (1) wave solder machine, ID #1012806, Dept. 7120, constructed in 1999;

(4) One (1) wave solder machine, ID# 194110 (Plant 9, Department 9601), constructed in 1991, with a capacity of 280 boards per hour, and exhausting to Stack 9-F7-1;

(5) One (1) wave solder machine, ID#186604 (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F7-2;

(6) One (1) wave solder machine, ID#165812 (Plant 9, Dept. 9604), constructed in 1983, with a capacity of 280 boards per hour, and exhausting to stack 9-C8-1; and

(7) Solvent cleaners utilizing predominantly non-photochemically reactive compounds, emitting less than 15 lb/day.

(8) Two (2) maintenance spray booths, constructed in 2003, located in the Central Maintenance Shop, with a total maximum paint usage of 0.71 gallons per hour, both controlled by dry filters.

(f) Diesel generators not exceeding one thousand six hundred (1,600) horsepower.

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.3 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.4 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort or any exclusive privilege.

B.7 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)] [326 IAC 2-7-6(6)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.

(c) For information furnished by the Permittee to IDEM, OAA, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; or

(3) Denial of a permit renewal application.

(b) Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act.

(c) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(d) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.9 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

(c) A responsible official is defined at 326 IAC 2-7-1(34).

B.10 Annual Compliance Certification [326 IAC 2-7-6(5)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

B.11 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee’s control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP extension notification does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.12 Emergency Provisions [326 IAC 2-7-16]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.13 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications [326 IAC 2-7-12(c)(7)].

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-4]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015

Indianapolis, Indiana 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]

[326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC

2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy any records that must be kept under the conditions of this permit;

(c) Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, I/M and Billing Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

(a) Pursuant to 40 CFR 52 Subpart P, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

(b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions rate from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour. This condition is not federally enforceable.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for which all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d)(3), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification for the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited, pursuant to the provisions of 40 CFR 61, Subpart M, is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

C.13 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) Whenever a condition in this permit requires the measurement of a temperature, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in a process at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

(a) A compliance schedule for meeting the requirements of 40 CFR 68; or

(b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP);

All documents submitted pursuant to this condition shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee supplemented for time to time by the Permittee, maintained on site, and comprised of:

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall constitute a violation of the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within “normal” parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring required in Section D shall be performed when the emission unit is operating. Except for time necessary to perform quality assurance and maintenance activities.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7 6]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM,

OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by July 1 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

(1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

(2) Indicate estimated actual emissions of other regulated pollutants (as defined by 326 IAC 2-7-1) from the source, for purposes of Part 70 fee assessment.

(b) The annual emission statement covers the twelve (12) consecutive month time period starting January 1 and ending December 31. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(1) One (1) wave solder machine, ID #184842 (Plant 9, Dept. 270E), constructed in 1997, with a capacity of 500 boards per hour, 5.78 pounds of flux per hour, and 0.09 pounds of thinner per hour, and exhausting to stack 9-E98-1;

(2) One (1) selective soldering machine, ID #2700001 (Plant 9, Dept. 270S), constructed in 1998, with a capacity of 90 boards per hour, 0.738 pounds of flux per hour, and no thinner use, and exhausting to stack 9-F98-1;

(3) One (1) wave solder machine, ID #1015805 (Plant 7, Dept. 286), constructed in 2003, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

(4) One (1) wave solder machine, ID #181019, (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F8-1;

(5) Nine (9) soldering machines, (Tech 2000 - Dept. 9502); two (2) constructed in 1999, ID#169964 and 208554; one (1) constructed in 2001; one (1) to be constructed in 2002; two (2) to be constructed in 2003; and three (3) to be constructed in 2004; all received approval in 067-10500-00061, with a capacity of 90 boards per hour each, and exhausting to stack 9-Z21-1 and 9-Z21-2; and

(6) One (1) wave soldering machine, ID #60000984, (Plant 7, Dept. 7661), constructed in 1996, with a capacity of 450 boards per hour, and exhausting to stack 7-T18-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6] [326 IAC 2-2]

(a) Pursuant to CP067-8909-00061, issued November 13, 1997, the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of the two (2) wave solder machines, ID # 184842 (Plant 9, Dept. 270E), and 2700001 (Plant 9, Dept. 270S), minus the VOC flux/thinner shipped out in the waste stream shall not exceed 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month and shall be limited to less than 25 tons as individual units per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 IAC 2-2 and 326 IAC 8-1-6, respectively, not applicable.

(b) Pursuant to CP067-1959-00022, the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of the two (2) wave solder machines, ID #181019 (Plant 9, Dept. 9602) and 186604 (Plant 9, Dept. 9602) (included in the insignificant activity list), along with one (1) conformal coater, ID #182386 (Plant 9, Dept. 7641), listed in Section D.2, minus the VOC flux/thinner shipped out in the waste stream shall not exceed 19.2 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 IAC 8-1-6 not applicable. This condition is the same as Condition D.2.2(a).

(c) Pursuant to CP067-6272-00022 and CP067-4218-00022, the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of one (1) wave solder machine, ID # 60000984 (Dept. 7661), minus the VOC flux/thinner shipped out in the waste stream shall be limited to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 8-1-6 not applicable.

(d) Pursuant to MSM 067-17930-00061 (this modification), the input of volatile organic compounds (VOC), including flux and thinner delivered to the applicators of wave solder machine #1015805 (Plant 7, Dept. 286) minus the VOC flux/thinner shipped out in the waste stream, shall not exceed 25.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

(e) Pursuant to CP067-10500-00061, the potential to emit VOC of the nine (9) soldering machines, Tech 2000 - Dept. 9502 is less than 25 tons per year. Therefore the requirements of 326 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year must be approved by the Office of Air Quality before any such change may occur.

D.1.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.1.3 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by using formulation data supplied by the flux manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.4 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.1.1.

(1) The throughput and VOC content of the flux;

(2) The throughput and VOC content of the thinners used;

(3) VOC flux/thinner shipped out in the waste stream;

(4) VOC input including flux and thinner minus VOC flux/thinner shipped out in waste stream.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1(a) through (d) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(b) One (1) surface coating system, referred to as EU_SC, with conformal coating applied to populated fiberglass circuit boards, paints applied to plastic radio and air control buttons and plastic face plates, comprised of the following emission units:

(1) Two (2) conformal coating hoods, (Plant 7, Dept. 7086), constructed in 1996, with a maximum capacity of 200 boards per hour, venting to stack 7-S18-1;

(2) Four (4) automated select conformal coaters, (Plant 7, Dept. 7130) with a maximum capacity of 222 pounds of circuit board per hour, constructed in 2002, with no control exhausting to stack 7-T22-1;

(3) One (1) conformal coater, ID #182386, (Plant 9, Dept. 7641),constructed in 1991, with a capacity of 515 boards per hour with no control, and exhausting to stack 9-C4-1;

(4) One (1) paint spray booth 1, ID #153415, (Plant 9, Dept. 962), constructed in 1985, with a maximum coating usage of 1.5 gallons per hour, with waterwalls for control, and exhausting to stack 9-C17-1; and

(5) One (1) paint booth to coat automotive plastic parts, ID #165441, (Plant 9, Dept. 964), constructed in 1993, with a maximum coating usage of 0.89 gallons per hour with waterwalls for control, and exhausting to stack 9-C15-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Hazardous Air Pollutants (HAPs) [40 CFR 63.50 through 63.56]

(a) The input of hexane to the conformal coaters and spray booths (all part of this section), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (Section D.6), minus the hexane input shipped out in the waste stream, shall be less than seven and two-tenths (7.2) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the hexane emissions from the combustion units and insignificant activities, the source total hexane emissions remain less than ten (10) tons per year.

(b) The input of any single HAP, other than hexane, to the conformal coaters and spray booths (all part of this section), the degreasers (Sections D.4. and D.5), and the semiconductor manufacturing process (Section D.6), minus the quantity of that single HAP shipped out in the waste stream, shall be less than nine and eight-tenths (9.8) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the single HAP, other than hexane, emissions from the combustion units and insignificant activities, the source total single HAP, other than hexane, emissions remain less than ten (10) tons per year.

(c) The input of any combination of HAPs to the conformal coaters and spray booths (all part of this section), the degreasers (Sections D.4. and D.5), and the semiconductor manufacturing process (Section D.6), minus the quantity of HAPs shipped out in the waste stream, shall be less than twenty-two (22.0) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the emissions of any combination of HAPs from the

combustion units and insignificant activities, the source total emissions of any combination of HAPs remain less than twenty-five (25) tons per year.

Compliance with these limitations renders the requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) not applicable.

D.2.2 Volatile Organic Compounds (VOC)

(a) Pursuant to CP067-1959-00022, the input volatile organic compounds (VOC) including coating, dilution solvents, and cleaning solvents delivered to one (1) conformal coater, ID #182386 (Plt. 9, Dept. 7641), along with two (2) wave solder machines, ID #181019 and 186604, listed in Section D.1, shall not exceed 19.2 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 IAC 8-1-6 not applicable. This condition is the same as Condition D.1.1(b).

(b) Pursuant to CP067-6694-00022, the potential to emit VOC of the two (2) conformal coating hoods (Plt. 7, Dept. 7086) is less than 25 tons per year. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year must be approved by the Office of Air Quality before any such change may occur.

(c) Pursuant to CP067-12263-00061, the potential to emit VOC of the four (4) automated select conformal coaters (Plt. 7, Dept. 7130) is less than 25 tons per year. Therefore the requirements of 326 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year must be approved by the Office of Air Quality before any such change may occur.

(d) Pursuant to the Registration issued on February 26, 1985, the potential to emit VOC of the one (1) paint spray booth 1, ID #153415 (Plt. 9, Dept. 962) is less than 25 tons per year. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year must be approved by the Office of Air Quality before any such change may occur.

(e) Pursuant to CP067-3097-00022, the potential to emit VOC of the one (1) paint booth to coat automotive plastic parts, ID #165441 (Plt. 9, Dept. 964) is less than 25 tons per year. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year must be approved by the Office of Air Quality before any such change may occur.

(f) Two (2) conformal coating hoods (Plt. 7, Dept. 7086), four (4) automated select conformal coaters (Plt. 7, Dept. 7130) and one (1) conformal coater, ID#182386 (Plt. 9, Dept. 7641) do not individually have the potential to emit greater than twenty-five (25) tons per year of VOC and individually do not have actual emissions greater than fifteen (15) pounds per day. Therefore, 326 IAC 8-2-9 (Miscellaneous Metal Coating Operation) does not apply.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year for each unit or increase the actual emissions of VOC to greater than

fifteen (15) pounds per day for each unit must be approved by the Office of Air Quality before any such change may occur.

D.2.3 Particulate Matter (PM) [40 CFR 52, Subpart P]

Pursuant to 40 CFR 52, Subpart P, the allowable PM emission rate from the surface coating units shall not exceed the pound per hour emission rate established using the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.2.4 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from one (1) paint spray booth 1, ID #153415 (Plant 9, Dept. 7641) and one (1) paint booth, ID #165441 (Plant 9, Dept. 964) shall be controlled by a dry filter or waterwash and the Permittee shall operate the control device in accordance with manufacturer's specifications. This requirement to operate the control device is not federally enforceable.

D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any control devices.

Compliance Determination Requirements

D.2.6 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs)

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.2.1 and D.2.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by using formulation data supplied by the coating manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.7 Record Keeping Requirements

(a) To document compliance with Condition D.2.1, the Permittee shall maintain records of the hexane input minus the hexane shipped out in the waste stream, the single HAP input minus the quantity of that single HAP shipped out in the waste stream, and the combination HAP input minus the quantity of HAPs shipped out in the waste stream for the conformal coaters and spray booths (all part of this section), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (Section D.6), combined.

(b) To document compliance with Condition D.2.2(a) through (f), the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.1(a) through (f).

(1) The VOC content of each coating material and solvent used.

(2) The amount of coating material and solvent less water used on daily basis.

(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(3) The volume weighted VOC content of the coatings used for each day;

(4) The cleanup solvent usage for each month;

(5) The total VOC usage for each month minus the VOC shipped out in the waste stream; and

(6) The weight of VOC and HAP emitted for each compliance period.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.8 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.2.1 and D.2.2(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(c) One (1) combustion system, referred to as EU_CO, comprised of the following emission units:

(1) One (1) natural gas-fired boiler, referred to as Boiler #9, Plt. 6, ID #16554, constructed in 1977, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 6-K12-1;

(2) One (1) natural gas-fired boiler, referred to as Boiler #10, Plt. 6, ID #21492, constructed in 1980, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 6-K12-2;

(3) One (1) natural gas-fired boiler, referred to as Boiler #1E, Plt. 8, ID #38302, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A11-3;

(4) One (1) natural gas-fired boiler, referred to as Boiler #2E, Plt. 8, ID #13313, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A11-4;

(5) One (1) natural gas-fired boiler, referred to as Boiler #3E, Plt. 8, ID #13312, constructed in 1966, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-B11-1;

(6) One (1) natural gas-fired boiler, referred to as Boiler #1W, Plt. 8, ID #852, constructed in 1967, with a capacity of 14.6 MMBtu/hr, and exhausting to stack 8-A13-4;

(7) One (1) natural gas fired boiler, referred to as Boiler Clayton 8W1, Plt. 8, constructed in 1996, with a capacity of 24.5 MMBtu/hr, and exhausting to stack 8-A13-7;

(8) One (1) natural gas-fired boiler, referred to as Boiler Clayton 8W2, Plt. 8, constructed in 1996, with a capacity of 24.5 MMBtu/hr, and exhausting to stack 8-A13-8;

(9) One (1) natural gas-fired boiler, referred to as Boiler West (831), Plt. 8, ID #17383, constructed in 1980, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 8-J27-1;

(10) One (1) natural gas-fired boiler, referred to as Boiler #8W, Plt. 9, ID #840, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-2;

(11) One (1) natural gas-fired boiler, referred to as Boiler #6W, Plt 9, ID #841, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-4;

(12) One (1) natural gas-fired boiler, referred to as Boiler #5W, Plt. 9, ID #5569, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-C25-1;

(13) One (1) natural gas-fired boiler, referred to as Boiler #3E, Plt. 9, ID #181067, constructed in 1990, with a capacity of 20.922 MMBtu/hr, and exhausting to stack 9-F10-2;

(14) One (1) natural gas-fired boiler, referred to as Boiler #2E, Plt. 9, ID #839, constructed in 1967, with a capacity of 16.7 MMBtu/hr, and exhausting to stack 9-F10-5;

SECTION D.3 FACILITY OPERATION CONDITIONS (Continued)

Facility Description [326 IAC 2-7-5(15)]:

(15) One (1) natural gas-fired boiler with No. 2 fuel oil backup, referred to as Boiler #1, Fab III, ID #151563, constructed in 1984, with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(16) One (1) natural gas-fired boiler with No 2 fuel oil backup, referred to as Boiler #2, Fab III, ID #151562, constructed in 1984. with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(17) One (1) natural gas-fired boiler, referred to as Boiler #3, Fab III, ID #8294003, constructed in 1992, with a capacity of 20.9 MMBtu/hr, and exhausting to stack 3-W6-M;

(18) One (1) natural gas fired Cleaver-Brooks 350 hp boiler, referred to as Boiler #1 Plt. 10, constructed in 2001, with a capacity of 14.65 MMBtu/hr, and exhausting to stack 10-E10-1;

(19) One (1) natural gas fired Cleaver-Brooks 350 hp boiler, referred to as Boiler #2 Plt. 10, ID #201182, constructed in 1995, with a capacity of 14.65 MMBtu/hr, and exhausting to stack 10-E10-1;

(20) Four (4) dynamometer testing cells, known as cells 1 through 4, constructed in 1997, each equipped with a 4,000 acfm exhaust stack, total capacity: 3.75 gallons of unleaded motor fuel burned per hour, and exhausting to stack 9-E85-1; and

(21) One (1) natural gas-fired boiler, referred to as Boiler MOS, Plt 8, ID #15917, constructed in 1977, with a capacity of 12.6 MMBtu/hr, and exhausting to stack 8-K18-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate Matter Limitation (PM) [326 IAC 6-1-15]

Pursuant to 326 IAC 6-1-15 (Howard County), the following boilers shall only fire natural gas:

Boiler #9, Plt. 6, ID #16554;
Boiler #10, Plt. 6, ID #21492;
Boiler #1E, Plt. 8, ID #38302;
Boiler #2E, Plt. 8, ID #13313;
Boiler #3E, Plt. 8, ID #13312;
Boiler #1W, Plt. 8, ID #852;
Boiler West (831), Plt. 8, ID #17383;
Boiler #8W, Plt. 9, ID #840;
Boiler #6W, Plt. 9, ID #841;
Boiler #5W, Plt. 9, ID #5569; and
Boiler #2E, Plt. 9, ID #839.

There are no specific emissions limitations in 326 IAC 6-1-15 for any units at this source.

D.3.2 Particulate Emission Limitation (PM) [326 IAC 6-2]

(a) Pursuant to 326 IAC 6-2-3 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from the boiler listed in the following table shall in no case

exceed the pounds of particulate per million British thermal units heat input listed in the table.

Construction Date	Unit	Q (MMBtu/hr)	h* (ft)	N	Pt (lb/MMBtu)	Limit (lb/MMBtu)
1966	Boiler #1E, Plant 8, ID #38302	125.2	42.25	8	0.29	0.29
1966	Boiler #2E, Plant 8, ID #13313	125.2	42.25	8	0.29	0.29
1966	Boiler #3E, Plant 8, ID #13312	125.2	42.25	8	0.29	0.29
1967	Boiler #1W, Plant 8, ID #852	125.2	42.25	8	0.29	0.29
1967	Boiler #8W, Plant 9, ID #840	125.2	42.25	8	0.29	0.29
1967	Boiler #6W, Plant 9, ID #841	125.2	42.25	8	0.29	0.29
1967	Boiler #5W, Plant 9, ID #5569	125.2	42.25	8	0.29	0.29
1967	Boiler #2E, Plant 9, ID #839	125.2	42.25	8	0.29	0.29
1977	Boiler #9, Plant 6, ID #16554	154.5	41.4	10	0.23	0.23
1977	Boiler MOS, Plant 8, ID #15917	154.5	41.4	10	0.23	0.23
1980	Boiler West (831), Plant 8, ID #17383	187.9	40.8	12	0.21	0.21
1980	Boiler #10, Plant 6, ID #21492	187.9	40.8	12	0.19	0.19

This limit was calculated using the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

Where $C = 50\ u/m^3$

Pt = emission rate limit (lbs/MMBtu/hr)
Q = total source heat input capacity (MMBtu/hr)
N = number of stacks (1)
a = plume rise factor (0.67)
h = stack height (ft)

(b) Pursuant to 326 IAC 6-2-4, particulate emissions from the following units shall not exceed the following emission rates calculated with the listed source heat input capacities:

Construction Date	Unit	Q (MMBtu/hr)	Pt (lb/MMBtu)	Emission Limit (lb/MMBtu)
1984	Boiler #1, Fab III, ID #151563	229.7	0.27	0.27

Construction Date	Unit	Q (MMBtu/hr)	Pt (lb/MMBtu)	Emission Limit (lb/MMBtu)
1984	Boiler #2, Fab III, ID #151562	229.7	0.27	0.27
1990	Boiler #3E, Plant 9, ID #181067	250.6	0.26	0.26
1992	Boiler #3, Fab III, ID #8294003	271.5	0.25	0.25
1995	Boiler #2, Plant 10, ID# 201182	286.15	0.25	0.25
1996	Boiler Clayton 8W1, Plant 8	335.2	0.24	0.24
1996	Boiler Clayton 8W2, Plant 8	335.2	0.24	0.24
2001	Boiler #1, Plant 10	349.7	0.24	0.24

The emission rates were calculated using the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where Pt = emission rate limit (lbs/MMBtu/hr)
Q = total source heat input capacity (MMBtu/hr)

D.3.3 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1][326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO_2 Emissions Limitations) the SO_2 emissions form Boiler #1, Fab III, ID#151563 and Boiler #2, Fab III, ID#151562 shall not exceed five-tenths (0.5) pounds per million British thermal units heat input each, when combusting distillate oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.

D.3.4 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in Condition D.3.5 except when otherwise specified in 40 CFR 60, Subpart Dc.

D.3.5 Particulate Matter Limitation [326 IAC 12-1] [40 CFR 60, Subpart Dc]

Although the boilers listed below:

Clayton 8W1, Plt. 8;
Clayton 8W2, Plt. 8;
Boiler #3E, Plt. 9, ID #181067;
Boiler #3, Fab III, ID #8294003;
Boiler #1, Plt. 10; and
Boiler #2, Plt. 10, ID #201182

are subject to 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial - Commercial - Institutional Steam Generating Units), there are no additional NSPS emission limitations applicable to these boilers, only record keeping requirements described in D.3.9.

D.3.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.3.7 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Condition D.3.3 shall be determined utilizing one of the following options:

(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;

(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from Boiler #1, Fab III, ID #151563 and Boiler #2, Fab III, ID #151562, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

Compliance Monitoring Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.8 Visible Emissions Notations

(a) Visible emission notations of the Boiler #1, Fab III, ID #151563 and Boiler #2, Fab III, ID #151562 stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere when fuel oil is burned. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.9 Record Keeping Requirements

(a) Pursuant to 40 CFR, Part 60 Subpart Dc, the owner operator of the units listed in D.3.5 shall record and maintain records of amounts of natural gas combusted during each month.

(b) To document compliance with Condition D.3.3, the Permittee shall maintain records in accordance with (1) through (5) below.

(1) Calendar dates covered in the compliance determination period;

(2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

(3) Fuel supplier certifications;

(4) The name of the fuel supplier; and

(5) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

(c) To document compliance with Condition D.3.8, the Permittee shall maintain records of visible emission notations of the boiler stacks exhaust once per shift.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.10 Reporting Requirements

(a) A semi-annual natural gas fired boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired boiler certification is required for all boilers listed in this section when firing natural gas. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(b) A quarterly summary of the information to document compliance with Condition D.3.3 in any compliance period when No. 2 fuel oil was combusted shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(d) One (1) degreasing system, referred to as EU_DG, comprised of the following emission units:

(1) Two (2) semi-aqueous cleaners for ceramic substrates, (Plant 6, Depts. 850 & 851), ID #190387 and 190388, constructed in 1993, with #19087 replaced in 2002, with a maximum throughput of 1,500 ceramic substrates each, and exhausting to stacks 6-N6-1 and 6-M19-2, respectively.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Hazardous Air Pollutants (HAPs) [40 CFR 63.50 through 63.56]

(a) The input of hexane to the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.5), and the semiconductor manufacturing process (Section D.6), minus the hexane shipped out in the waste stream, shall be less than seven and two-tenths (7.2) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the hexane emissions from the combustion units and insignificant activities, the source total hexane emissions remain less than ten (10) tons per year.

(b) The input of any single HAP, other than hexane, to the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.5), and the semiconductor manufacturing process (Section D.6), minus the quantity of that single HAP shipped out in the waste stream, shall be less than nine and eight-tenths (9.8) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the single HAP, other than hexane, emissions from the combustion units and insignificant activities, the source total single HAP, other than hexane, emissions remain less than ten (10) tons per year.

(c) The input of any combination of HAPs to the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.5), and the semiconductor manufacturing process (Section D.6), minus the quantity of HAPs shipped out in the waste stream, shall be less than twenty-two (22.0) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the emissions of any combination of HAPs from the combustion units and insignificant activities, the source total emissions of any combination of HAPs remain less than twenty-five (25) tons per year.

Compliance with these limitations renders the requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) not applicable.

D.4.2 Volatile Organic Compounds (VOC)

Pursuant to CP067-2848-00053 and MSM 067-145608-00061, the potential to emit VOC of the two (2) semi-aqueous cleaners for ceramic substrates, (Dept. 850 and 851), ID #190387 and 190388, is less than 25 tons per year combined. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year must be approved by the Office of Air Quality before any such change may occur.

D.4.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-4]

(a) Pursuant to 326 IAC 8-3-4 (Conveyorized degreaser operation), the owner or operator of a conveyorized degreaser operation shall:

(1) Minimize carryout emissions by racking parts for best drainage and maintaining the vertical conveyor speed at less than 3.3 meters per minute (eleven (11) feet per minute);

(2) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another partly, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere;

(3) Repair solvent leaks immediately, or shut down the degreaser;

(4) Not use workplace fans near the degreaser opening; and

(5) Provide permanent, conspicuous label summarizing the operating requirements.

D.4.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities.

Compliance Determination Requirements

D.4.5 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs)

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.4.1 and D.4.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by using formulation data supplied by the coating and solvent manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.6 Record Keeping Requirements

(a) To document compliance with Condition D.4.1, the Permittee shall maintain records of the hexane input minus the hexane shipped out in the waste stream, the single HAP input minus the quantity of that single HAP shipped out in the waste stream, and the combination HAP input minus the quantity of HAPs shipped out in the waste stream for the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.5), and the semiconductor manufacturing process (Section D.6), combined.

(b) To document compliance with Condition D.4.2, the Permittee shall maintain records of the VOC input to the two (2) semi-aqueous cleaners for ceramic substrates minus the VOC collected as waste.

(c) All records shall be maintained in accordance with Section C-General Record Keeping Requirements, of this permit.

D.4.7 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.4.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(d) One (1) degreasing system, referred to as EU_DG, comprised of the following emission units:

(2) One (1) halogenated degreaser, (Plant 8, Dept. 889) ID #161437, constructed in 1987 with a maximum capacity of 750 boards per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 General Provisions Relating to HAPs [40 CFR 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart T.

D.5.2 Halogenated Solvent Cleaning Machine NESHAP [326 IAC 20-6-1] [40 CFR 63, Subpart T]

One (1) halogenated degreaser, ID #161437, is subject to 40 CFR Part 63, Subpart T (Halogenated Solvent Cleaning Machine NESHAP), which is incorporated by reference as 326 IAC 20-6-1.

(a) Pursuant to 40 CFR 63.463(a) & (b), the Permittee shall conform to the following design requirements:

(1) The cleaning machine shall be designed or operation such that it has an idling and downtime cover, as described in 40 CFR 63.463(d)(1)(i), that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, or other defects.

(2) The cleaning machine shall be employed with a control combination of freeboard refrigeration device and working-mode cover.

(3) The cleaning machine shall have a freeboard ratio of 0.75 or greater.

(4) Cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minutes (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts.

(5) Cleaning machine shall be equipped with a device that shuts off sump heat if the sump liquid solvent level drops to the sump heater coils.

(6) Cleaning machine shall have a primary condenser.

(7) Cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.

(b) Pursuant to 40 CFR 63.463 (d), the following work and operational practice requirements for the degreasing operation are applicable:

(1) The parts baskets or the parts being cleaned in the cleaning machine shall not occupy more than 50 percent of the solvent/air interface area unless the parts

baskets or parts are introduced at a speed of 0.9 meters per minute (3 feet per minute) or less.

(2) Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air.

(3) Parts shall be oriented so that the solvents drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved by the commissioner.

(4) Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped.

(5) During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.

(6) During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.

(7) When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leak proof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.

(8) Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the commissioner's satisfaction to achieve the same or better results as those recommended by the manufacturer.

(9) Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning operating procedures in appendix B of 40 CFR 63, if requested during an inspection by the commissioner.

(10) Waste solvents, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.

(11) Sponges, fabric, wood, and paper products shall not be cleaned.

(c) Pursuant to 40 CFR 63.463 (e), the Permittee shall comply with the following requirements:

(1) The Permittee shall conduct monitoring of each control device used to comply with §63.463 as provided in 40 CFR 63.466, monitoring procedures.

(2) Determine during each monitoring period if the control device used to comply with the above standards meets the following requirements:

(A) The Permittee shall ensure that the chilled air blanket temperature (in EF), measured at the center of the air blanket of the freeboard refrigeration device is no greater than 30% of the solvent's boiling point.

(B) When using an idling-mode cover the Permittee shall:

(i) Ensure that the cover is in place whenever parts are not in the solvent cleaning machine and completely covers the cleaning machine when in place.

(ii) Ensure that the idling-mode cover is maintained free of cracks, holes, and other defects.

(3) An exceedance has occurred if :

(A) The requirements of paragraph (c)(2)(B)(i) of this condition is not met; and

(B) The requirements of paragraphs (c)(2)(A) and (c)(2)(B)(ii) of this condition have not been met and are not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The parameters must be remeasured immediately upon adjustment or repair and demonstrated to be within the required limits.

(4) The owner or operator shall report all exceedances and all corrections and adjustments made to avoid an exceedance as specified in 40 CFR63.468.

D.5.3 Hazardous Air Pollutants (HAPs) [40 CFR 63.50 through 63.56]

(a) The input of hexane to the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.4), and the semiconductor manufacturing process (Section D.6), minus the hexane shipped out in the waste stream, shall be less than seven and two-tenths (7.2) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the hexane emissions from the combustion units and insignificant activities, the source total hexane emissions remain less than ten (10) tons per year.

(b) The input of any single HAP, other than hexane, to the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.4), and the semiconductor manufacturing process (Section D.6), minus the quantity of that single HAP shipped out in the waste stream, shall be less than nine and eight-tenths (9.8) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the single HAP, other than hexane, emissions from the combustion units and insignificant activities, the source total single HAP, other than hexane, emissions remain less than ten (10) tons per year.

(c) The input of any combination of HAPs to the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.4), and the semiconductor manufacturing process (Section D.6), minus the quantity of HAPs shipped out in the waste stream, shall be less than twenty-two (22.0) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the emissions of any combination of HAPs from the combustion units and insignificant activities, the source total emissions of any combination of HAPs remain less than twenty-five (25) tons per year.

Compliance with these limitations renders the requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) not applicable.

D.5.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Compliance Monitoring Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.5 Monitoring Procedures [40 CFR 63.466]

Pursuant to 40 CFR 63.466 the Permittee shall comply with the following monitoring procedures:

(a) The Permittee shall conduct monitoring and record the results on a weekly basis for the control devices, as appropriate, specified in paragraph(s) below:

(1) The Permittee shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket of the free board refrigeration device during idling mode.

(b) The Permittee shall conduct monitoring and record the results on a monthly basis for the control devices, as appropriate, specified in the paragraph below:

(1) The Permittee shall conduct a visual inspection to determine if the cover opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects.

(c) The Permittee shall monitor the hoist speed as described below:

(1) The Permittee shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes.

(2) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the Permittee may begin monitoring the hoist speed quarterly.

(3) If the exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to the monthly until another year of compliance without an exceedance is demonstrated.

(4) If the Permittee can demonstrate to the commissioner's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.

D.5.6 Hazardous Air Pollutants (HAPs)

Compliance with the HAP content and usage limitations contained in Condition D.5.3 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by using formulation data supplied by the coating and solvent manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.7 Record Keeping Requirements

(a) The Permittee shall maintain, in written or electronic form, records of the following information specified below, for the life time of the machine,

(1) Owners's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment.

(2) The date of installation of the solvent cleaning machine and all of its control devices. If the exact date of the installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted.

(3) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine.

(b) The Permittee shall maintain, in written or electronic form, records of the following information specified below for a period of 5 years:

(1) The results of control device monitoring required under 40 CFR 63.466.

(2) Information on the actions taken to comply with 40 CFR 63.463(e). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(3) Estimates of annual solvent consumption for each solvent cleaning machine.

(c) To document compliance with Condition D.5.3, the Permittee shall maintain records of the hexane input minus the hexane shipped out in the waste stream, the single HAP input minus the quantity of that single HAP shipped out in the waste stream, and the combination HAP input minus the quantity of HAPs shipped out in the waste stream for the conformal coaters and spray booths (Section D.2), the degreasers (part of this Section and Section D.4), and the semiconductor manufacturing process (Section D.6), combined.

(d) All records shall be maintained in accordance with Section C-General Record Keeping Requirements, of this permit.

D.5.8 Reporting Requirements

(a) A summary of the information to document compliance with Conditions D.5.2 and D.5.5 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, and to the following address:

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Subsections (b) through (d) below describe the necessary reports.

(b) The Permittee shall submit an annual report by February 1 of each year following the one for which the reporting is being made. This report shall include the requirements as follows:

(1) A signed statement from the facility owner or his designee stating that , “All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR 63.463(d)(10).”

(2) An estimate of solvent consumption for each solvent cleaning machine during the reporting period.

(c) The Permittee shall submit an exceedance report to the commissioner semiannually except when, the commissioner determines, on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the Permittee shall follow a quarterly reporting format until a request to reduce reporting frequency under paragraph 40 CFR 63.468 (i) of this section is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calender half or quarter, as

appropriate. The exceedance report shall include the applicable information as given below:

(1) Information on the actions taken to comply with 40 CFR 63.463(e). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

(3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

(d) Pursuant to 40 CFR 63.463(i), the Permittee who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the following conditions are met:

(1) The source has demonstrated a full year of compliance without an exceedance.

(2) The Permittee continues to comply with all relevant Record Keeping and monitoring requirements specified in Subpart A (General Provisions) and in 40 CFR 63, Subpart T

(3) The commissioner does not object to a reduced frequency of reporting for the affected source as provided in paragraphs (e)(3)(iii) of Subpart A (General Provisions) of 40 CFR 63.

(e) A quarterly summary of the information to document compliance with Condition D.5.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

(e) One (1) quad-fine-pitch (QFP) plater with a 3400 CFM fume scrubber, constructed in 1992, referred to as EU_EP, and exhausting to stack 6-K24-3.

(f) One (1) semiconductor system, referred to as EU_CR, consisting of the following emission units:

(1) One (1) acid mixing operation for nitric, phosphoric, sulfuric, and hydrofluoric acids, constructed in 1980, with an average throughput of 9,990 gallons/yr of sulfuric acid, 3,400 gallons/yr of phosphoric acid, 7,400 gallons/yr of nitric acid, 8,000 gallons/yr of hydrofluoric acid, and 4,100 gallons/yr of acetic acid, controlled by one (1) fume scrubber, also constructed in 1980, with a maximum capacity of 25,000 CFM;

(2) One climate controlled clean room, designated as Fab I wet room, constructed in 1981, exhausting through five (5) wet scrubbers with maximum capacities of 3400 CFM, 8950 CFM, 12150 CFM, 20000 CFM, and 20000 CFM, respectively;

(3) One (1) silicon wafer coating room, designated as Fab I yellow room, constructed in 1981;

(4) One (1) climate controlled clean room, designated as Fab V wet room, constructed in 1981, exhausting through two (2) wet scrubbers with maximum capacities of 12000 CFM and 16000 CFM;

(5) One (1) silicon wafer coating room, designated as Fab V yellow room, constructed in 1984;

(6) One (1) climate controlled clean room, designated as Fab III wet room, constructed in 1984, and exhausting through four (4) wet scrubbers with maximum capacities of 40000 CFM each; and

(7) One (1) silicon wafer coating room, designated as Fab III yellow room, constructed in 1984.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.6.1 Hazardous Air Pollutants (HAPs) [40 CFR 63.50 through 63.56]

(a) The input of hexane to the conformal coaters and spray booths (Section D.2), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (part of this section), minus the hexane shipped out in the waste stream, shall be less than seven and two-tenths (7.2) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the hexane emissions from the combustion units and insignificant activities, the source total hexane emissions remain less than ten (10) tons per year.

(b) The input of any single HAP, other than hexane, to the conformal coaters and spray booths (Section D.2), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (part of this section), minus the quantity of that single HAP shipped out in the waste stream, shall be less than nine and eight-tenths (9.8) tons, combined, per

twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the single HAP, other than hexane, emissions from the combustion units and insignificant activities, the source total single HAP, other than hexane, emissions remain less than ten (10) tons per year.

(c) The input of any combination of HAPs to the conformal coaters and spray booths (Section D.2), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (part of this section), minus the quantity of HAPs shipped out in the waste stream, shall be less than twenty-two (22.0) tons, combined, per twelve (12) consecutive month period with compliance determined at the end of each month. This limit is structured such that, when including the emissions of any combination of HAPs from the combustion units and insignificant activities, the source total emissions of any combination of HAPs remain less than twenty-five (25) tons per year.

Compliance with these limitations renders the requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) not applicable.

D.6.2 Volatile Organic Compounds (VOC)

(a) The potential to emit VOC of the one (1) silicon wafer coating room, designated as Fab I yellow room, and one (1) climate controlled clean room, designated as Fab I wet room, is less than 25 tons per year. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year from these units must be approved by the Office of Air Quality before any such change may occur.

(b) The potential to emit VOC of the one (1) climate controlled clean room, designated as Fab V wet room, and one (1) silicon wafer coating room, designated as Fab V yellow room, is less than 25 tons per year. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 25 tons per year from these units must be approved by the Office of Air Quality before any such change may occur.

(c) The potential to emit VOC of the one (1) climate controlled room clean room, designated as Fab III wet room, and one (1) silicon wafer coating room, designated as Fab III yellow room, is less than 10 tons per year. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

Any change or modification which may increase the potential emissions of VOC to greater than 10 tons per year from these units must be approved by the Office of Air Quality before any such change may occur.

D.6.3 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the QFP plater and semiconductor manufacturing units shall not exceed the pounds per hour limitation calculated using the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.6.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any control devices.

Compliance Determination Requirements

D.6.5 Particulate Matter

In order to comply with Condition D.6.2, the fume and wet scrubbers shall be in operation and control emissions from the facilities at all times that the facilities are in operation.

D.6.6 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs)

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.6.1 and D.6.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by using formulation data supplied by the coating and solvent manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.6.7 Parametric Monitoring

(a) The Permittee shall monitor and record the scrubber liquor pH, pressure drop, and recirculation flow rate of each of the scrubbers, at least once per week when the associated facilities are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the scrubbers is outside the following normal ranges:

Scrubber	Pressure Drop (inches of water)
Acid mixing scrubber	0.1 - 3
Fab 1 scrubber - Dept. 8026 5ID Room TRI-MER DE No. 169970	0.1 - 1.2
Fab 1 scrubber - 5ID Room (Dept. 8026) Harrington DE No. (none)	0.1 - 2.5
Fab 1 scrubber - SensorFAB (8026) Harrington DE No. 177150 (826B)	0.1 - 3
Fab 1 scrubber - Dept. 8026 SensorFAB East (VIRON) DE No. (none) (SB101A)	0.1 - 3.5
Fab 1 scrubber - Dept. 8026 SensorFAB West (VIRON) DE No. (none) (SB100A)	0.1 - 3.5
Fab V scrubber - Dept. 8327 Bump Room (VIRON) DE No. 198849 (SB104)	0.1 - 3.5
Fab V scrubber - Dept. 8327 Bump Room (Harrington) DE No. 158827	0.1 - 3
QFP scrubber	0.1 - 1.2
Fab III - Dept. 8294 SC-1 (Heil)	0.5 - 8
Fab III - Dept. 8294 SC-2 (Heil)	0.5 - 8
Fab III - Dept. 8294 SC-3 (Heil)	0.5 - 8
Fab III - Dept. 8294 SC-4 (Heil)	0.5 - 8

or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation,

Implementation, Records, and Reports. When for any one reading, the recirculation flow rate of each of the scrubbers is outside the following normal ranges:

Scrubber	Recirculation Flow Rate (gpm)
Acid mixing scrubber	150 - 350
Fab 1 scrubber - Dept. 8026 5ID Room TRI-MER DE No. 169970	3 - 30
Fab 1 scrubber - 5ID Room (Dept. 8026) Harrington DE No. (none)	100 - 180
Fab 1 scrubber - SensorFAB (8026) Harrington DE No. 177150 (826B)	100 - 180
Fab 1 scrubber - Dept. 8026 SensorFAB East (VIRON) DE No. (none) (SB101A)	140 - 200
Fab 1 scrubber - Dept. 8026 SensorFAB West (VIRON) DE No. (none) (SB100A)	140 - 200
Fab V scrubber - Dept. 8327 Bump Room (VIRON) DE No. 198849 (SB104)	100 - 180
Fab V scrubber - Dept. 8327 Bump Room (Harrington) DE No. 158827	120 - 180
QFP scrubber	3 - 15
Fab III - Dept. 8294 SC-1 (Heil)	260 - 340
Fab III - Dept. 8294 SC-2 (Heil)	260 - 340
Fab III - Dept. 8294 SC-3 (Heil)	260 - 340
Fab III - Dept. 8294 SC-4 (Heil)	260 - 340

or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. When for any one reading, the scrubber liquor pH of each of the scrubbers is outside the pH range of 5 to 9 or a scrubber liquor pH established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure drop, recirculation flow rate, or scrubber liquor pH reading that is outside of the above mentioned ranges is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

(b) Each room shall be equipped with an alarm to indicate possible scrubber failure. In the event of an alarm, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports shall be considered a violation of this permit.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.6.8 Record Keeping Requirements

(a) To document compliance with Condition D.6.1, the Permittee shall maintain records of the hexane input minus the hexane shipped out in the waste stream, the single HAP input minus the quantity of that single HAP shipped out in the waste stream, and the combination HAP input minus the quantity of HAPs shipped out in the waste stream for the conformal coaters and spray booths (Section D.2), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (part of this section), combined.

(b) To document compliance with Condition D.6.2, the Permittee shall maintain records of the VOC input minus the VOC collected as waste to the units listed in Condition D.6.2.

(c) In order to document compliance with Condition D.6.7, the permittee shall maintain records of the following operational parameters for each of the scrubbers once per week during normal operation:

(1) Pressure drop;

(2) Recirculation flow rate; and

(3) Scrubber liquor pH (pH Level).

(d) The Permittee shall maintain records of any alarms that sound and the response steps taken.

(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.6.9 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.6.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.7 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour:

(1) One (1) natural gas-fired boiler referred to as Boiler TTC, ID #9424001, constructed in 1993, with a capacity of 1.8 MMBtu/hr [326 IAC 6-2-4].

(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6; [326 IAC 8-3-2] [326 IAC 8-3-5]

(1) Five (5) cold cleaners in Plant 6, constructed pursuant to CP067-3262-00022;
(2) One (1) cold cleaner in Plant 7;
(3) Four (4) cold cleaners in Plant 8;
(4) Twelve (12) cold cleaners in Plant 9; and
(5) Two (2) cold cleaners in Plant 10;

(c) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone [326 IAC 6-3-2];

(d) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations [326 IAC 6-3-2]; and

(e) Sources emitting less than five (5) tons per year of PM, ten (10) tons per year of VOC, one (1) ton per year of a single HAP, and two and a half (2.5) tons per year of any combination of HAPs [326 IAC 6-3-2] [40 CFR 52 Subpart P]:

(1) One (1) wave solder machine, ID #202031, Dept, 7120, constructed in 1999;

(2) One (1) wave solder machine, Dept. 7120, constructed in 1999;

(3) One (1) wave solder machine, ID #1012806, Dept. 7120, constructed in 1999;

(4) One (1) wave solder machine, ID# 194110 (Plant 9, Department 9601), constructed in 1991, with a capacity of 280 boards per hour, and exhausting to Stack 9-F7-1;

(5) One (1) wave solder machine, ID#186604 (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F7-2;

(6) One (1) wave solder machine, ID#165812 (Plant 9, Dept. 9604), constructed in 1983, with a capacity of 280 boards per hour, and exhausting to stack 9-C8-1; and

(7) Solvent cleaners utilizing predominantly non-photochemically reactive compounds, emitting less than 15 lb/day.

(8) Two (2) maintenance spray booths, constructed in 2003, located in the Central Maintenance Shop, with a total maximum paint usage of 0.71 gallons per hour, both controlled by dry filters.

(f) Diesel generators not exceeding one thousand six hundred (1,600) horsepower.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 Particulate Emission Limitation [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from the Boiler TTC, ID #9424001 shall not exceed 0.25 pounds per hour. This limit was established using the following equation:

$$Pt = \frac{1.09}{Q^{0.26}} = \frac{1.09}{(271.52)^{0.26}}$$

Where Pt = emission rate limit (lbs/MMBtu)
Q = total source heat input capacity (MMBtu/hr)
(Q = 271.52 MMBtu/hr)

D.7.2 Particulate Emission Limitations [326 IAC 6-3-2] [40 CFR 52, Subpart P]

(a) Pursuant to 326 IAC 6-3-2, the allowable particulate emissions rate from each of the trimmers, grinding and machining operations, wave solder machines, and hand brush coating stations with a process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

(b) Pursuant to 40 CFR 52, Subpart P, the PM from each of the spray booths shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.7.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.7.4 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

Pursuant to 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control) for cold cleaning operations constructed after July 1, 1990:

(a) The owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measure at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9EC) (one hundred twenty degrees Fahrenheit (120EF):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) The owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.7.5 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the spray booths shall be controlled by dry filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061

This form consists of 2 pages **Page 1 of 2**

9 This is an emergency as defined in 326 IAC 2-7-1(12)
The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061

9	Natural Gas Only
9	Alternate Fuel burned From:_____ To:_____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Signature:
Printed Name:
Title/Position:
Phone:
Date:

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Boiler #1, Fab III, ID #151563
Parameter: SO_2
Limits: Less than five tenths (0.5) pounds per million BTU heat input

Month: _____ **Year:** _____

Month	Sulfur Content (%)	Heat Content	Fuel usage (gal/month)	SO_2 Emissions (lb/MMBTU)

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Boiler #2, Fab III, ID #151562
Parameter: SO_2
Limits: Less than five tenths (0.5) pounds per million BTU heat input

Month: _____ **Year:** _____

Month	Sulfur Content (%)	Heat Content	Fuel usage (gal/month)	SO_2 Emissions (lb/MMBTU)

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Two (2) wave solder machines (ID #184842, 2700001)
Parameter: The VOC input including flux and thinner delivered to the applicators minus the VOC flux/thinner shipped out in the waste stream
Limit: No more than 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month
Less than 25 tons as individuals per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Two (2) wave solder machines (ID #181019, Plant 9, Dept. 9602 and ID #186604, Plant 9, Dept. 9602) and one (1) conformal coater (ID #182386, Plant 9, Dept. 7641)
Parameter: The VOC input including flux and thinner delivered to the applicators minus the VOC flux/thinner shipped out in the waste stream
Limit: No more than 19.2 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: One (1) wave solder machine (ID #60000984, Dept. 7661)
Parameter: The VOC input including flux and thinner delivered to the applicators minus the VOC flux/thinner shipped out in the waste stream
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Conformal coaters and spray booths (Section D.2), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (Section D.6), combined.
Parameter: Hexane input minus the hexane shipped out in the waste stream
Limit: Less than seven and two-tenths (7.2) tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Conformal coaters and spray booths (Section D.2), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (Section D.6), combined.
Parameter: Single HAP, other than hexane, input minus the quantity of that single HAP shipped out in the waste stream
Limit: Less than nine and eight-tenths (9.8) tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Conformal coaters and spray booths (Section D.2), the degreasers (Sections D.4 and D.5), and the semiconductor manufacturing process (Section D.6), combined.
Parameter: Combination HAP input minus the quantity of HAPs shipped out in the waste stream
Limit: Less than twenty-two (22.0) tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Wave Solder Machine #1015805
Parameter: The VOC input minus the VOC shipped out in the waste stream (including flux and thinner)
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061

Months: _____ **to** _____ **Year:** _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Minor Source Modification and a Part 70 Minor Permit Modification

Source Background and Description

Source Name:	Delco Electronics Corporation
Source Location:	2100 East Lincoln Road, Kokomo, Indiana 46904
County:	Howard
SIC Code:	3089, 3469, 3471, 3651, 3672, 3674, 3679, 3694
Operation Permit No.:	T067-6505-00061
Operation Permit Issuance Date:	October 21, 2002
Minor Source Modification No.:	067-17930-00061
Minor Permit Modification No.:	067-17932-00061
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed a modification application from Delco Electronics Corporation relating to the construction of the following emission units and pollution control devices:

One (1) wave solder machine, ID #1015805 (Plant 7, Dept. 286), constructed in 2003, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1.

History

Delco Electronics Corporation is an existing automotive industry electronic components manufacturing plant and their Part 70 permit (T067-6505-00061) was issued on October 21, 2002. On May 15, 2003, Delco Electronics Corporation submitted an application to the OAQ requesting to replace the existing wave solder machine #184737 with an identical unit #1015805. This replacement occurred in July 2003. Since this qualifies as a replacement of an existing emission unit under 326 IAC 2-7-10.5(b)(3), the Permittee could initiate the replacement before receiving air approvals, but must submit an application for a permit no later than 30 days after initiating the replacement, pursuant to 326 IAC 2-7-10.5(b).

Source Definition

This source, which produces electronic components principally for the automotive industry, consists of the following plants:

(a) Plants 6, 7, and 9 (Plant ID 067-00022), located at 1800 - 2100 East Lincoln Road, Kokomo, Indiana;

(b) Plants 8, and 10 (Plant ID 067-00023), located at 2150 East Lincoln Road, Kokomo, Indiana; and

(c) Fab III (Plant ID 067-00051), located at 2033 East Boulevard Avenue, Kokomo, Indiana.

Since these plants are located on contiguous or adjacent properties, belong to the same industrial grouping, and are under common control of the same entity, IDEM, OAQ has determined that these plants are considered one (1) single source. This determination was made during the review of the source's Part 70 Permit (T067-6505-00061, issued on October 21, 2002) and will apply to this modification as well.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 Minor Source Modification and the Part 70 Minor Permit Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on May 15, 2003. Additional information was received on July 7, 2003, July 28, 2003, and August 20, 2003.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (Page 1).

Potential To Emit of Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	--
PM-10	--
SO_2	--
VOC	34.7
CO	--
NO_x	--

Justification for Modification

This replacement is being performed through a Part 70 Minor Source Modification pursuant to 326 IAC 2-7-10.5(d)(5)(A) as the potential to emit VOC from this modification is limited to less than 25 tons/yr by limiting the VOC usage for the new solder machine. The replaced solder machine was also limited to less than 25 tons/yr in the source's Part 70 permit (T067-6505-00061, issued October 21, 2002). The permit modification is being performed through a Part 70 Minor Permit Modification pursuant to 326 IAC 2-7-12(b) because this modification meets all the requirements in 326 IAC 2-7-12(b)(1).

County Attainment Status

The source is located in Howard County.

Pollutant	Status
PM-10	Attainment
SO_2	Attainment
NO_2	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Howard County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) Howard County has been classified as attainment or unclassifiable for all other pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Fugitive Emissions
Since this type of operation is not in one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive PM emissions are not counted toward determination of PSD applicability.

Source Status

Existing Source PSD Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	Less than 100
PM-10	Less than 100
SO_2	Greater than 100, but less than 250
VOC	Greater than 250
CO	Less than 100
NOx	Greater than 250

(a) This existing source is a major stationary source because at least one of the attainment regulated pollutants (VOC and NO_x) is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.

(b) These emissions are based upon the Technical Support Document (TSD) for the source's Part 70 Permit (T067-6505-00061), issued on October 21, 2002.

Potential to Emit of Modification After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 source modification.

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
Wave Solder Machine #1015805	-	-	-	Less than 25	-	-	-
PSD Significant Thresholds	25	15	40	40	100	40	NA

This modification to an existing major stationary source is not major because the emission increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this proposed modification.

(c) This modification does not involve a pollutant-specific emissions unit:

(1) With the potential to emit before controls equal to or greater than one hundred (100) tons per year, and

(2) That is subject to an emission limit and has a control device that is necessary to meet that limit.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this modification.

State Rule Applicability - Wave Solder Machine #1015805

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The replaced wave solder machine (#184737) was constructed in 1998 and the VOC usage for this unit was limited to less than 25 tons/yr. The new wave solder machine (#1015805) was constructed in 2003 and has potential VOC emissions greater than 25 tons per year. The source proposed to limit the VOC input to the new solder machine, including flux and thinner delivered to

the applicators, minus the VOC flux/thinner shipped out in the waste stream, to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

There are no particulate emissions from solder machines because they are similar to flow coaters. Therefore, the requirements of 326 IAC 6-3-2 are not applicable. In addition, Condition D.1.2 in the source's Part 70 permit (T067-6505-000061, issued on October 21, 2002) for particulate emission limitations has been removed from the revised permit.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance of VOC usage limit for the new wave solder machine is based on the recordkeeping. Therefore, there are no specific compliance monitoring requirements applicable to this modification.

Proposed Changes

The source's mailing address in all the reporting forms has been changed to "P.O. Box 9005, Kokomo, Indiana 46904-9005." IDEM, OAQ also made the following changes to the permit:

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a source which produces electronic components principally for the automotive industry.

Responsible Official:	Managing Director, Kokomo Operations
Source Address:	2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address:	P.O. Box 9005, Kokomo, Indiana 46904-9005
General Source Phone Number:	(765) 451-6738
SIC Code:	3089, 3469, 3471, 3651, 3672, 3674, 3679, 3694
County Location:	Howard
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD Minor Source, Section 112 of the Clean Air Act **Not 1 of 28 Source Categories**

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(3) One (1) wave solder machine, ID #~~184737~~ **1015805** (Plant 7, Dept. 286), constructed in ~~1998~~ **2003**, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) One (1) wave soldering system, referred to as EU_WS, and comprised of the following emission units:

(1) One (1) wave solder machine, ID #184842 (Plant 9, Dept. 270E), constructed in 1997, with a capacity of 500 boards per hour, 5.78 pounds of flux per hour, and 0.09 pounds of thinner per hour, and exhausting to stack 9-E98-1;

(2) One (1) selective soldering machine, ID #2700001 (Plant 9, Dept. 270S), constructed in 1998, with a capacity of 90 boards per hour, 0.738 pounds of flux per hour, and no thinner use, and exhausting to stack 9-F98-1;

(3) One (1) wave solder machine, ID #~~184737~~ **1015805** (Plant 7, Dept. 286), constructed in ~~1998~~ **2003**, with a capacity of 600 boards per hour, 6.65 pounds of flux per hour, and 1.77 pounds of thinner per hour, and exhausting to stack 7-S22-1;

(4) One (1) wave solder machine, ID #181019, (Plant 9, Dept. 9602), constructed in 1991, with a capacity of 515 boards per hour, and exhausting to stack 9-F8-1;

(5) Nine (9) soldering machines, (Tech 2000 - Dept. 9502); two (2) constructed in 1999, ID#169964 and 208554; one (1) constructed in 2001; one (1) to be constructed in 2002; two (2) to be constructed in 2003; and three (3) to be constructed in 2004; all received approval in 067-10500-00061, with a capacity of 90 boards per hour each, and exhausting to stack 9-Z21-1 and 9-Z21-2; and

(6) One (1) wave soldering machine, ID #60000984, (Plant 7, Dept. 7661), constructed in 1996, with a capacity of 450 boards per hour, and exhausting to stack 7-T18-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

D.1.1 Volatile Organic Compounds (VOC) **[326 IAC 8-1-6] [326 IAC 2-2]**

(a) Pursuant to CP067-8909-00061, **issued November 13, 1997,** the input volatile organic compounds (VOC) including flux and thinner delivered to the applicators of the ~~three (3)~~ **two (2)** wave solder machines, ID # 184842 (Plant 9, Dept. 270E), **and** 2700001 (Plant 9, Dept. 270S), ~~and 184737 (Plant 7, Dept. 286),~~ minus the VOC flux/thinner shipped out in the waste stream shall not exceed 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month and shall be limited to less than 25 tons as individual units per twelve (12) consecutive month period with compliance determined at the end of each month. This renders the requirements of 326 IAC 2-2 and 326 IAC 8-1-6, respectively, not applicable.

. . . . . .

(d) Pursuant to MSM 067-17930-00061 (this modification), the input of volatile organic compounds (VOC), including flux and thinner delivered to the applicators of wave solder machine #1015805 (Plant 7, Dept. 286) minus the VOC flux/thinner shipped out in the waste stream, shall not exceed 25.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

(~~d~~**e**) Pursuant to CP067-10500-00061, the potential to emit VOC of the nine (9) soldering machines, Tech 2000 - Dept. 9502 is less than 25 tons per year. Therefore the requirements of 326 8-1-6 are not applicable.

~~D.1.2 Particulate Emission Limitations [326 IAC 6-3-2]~~

~~(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from each of the soldering machines shall not exceed the pound per hour emission rate established using the following equation:~~

~~Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:~~

~~$E = 4.10 P^{0.67}$~~ ~~where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour~~

~~(b) Pursuant to 326 IAC 6-3-2, the allowable particulate emissions rate from each of the wave soldering machines with a process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

D.1.3**2** Preventive Maintenance Plan [326 IAC 2-7-5(13)]

D.1.4**3** Volatile Organic Compounds (VOC)

D.1.5**4** Record Keeping Requirements

D.1.6**5** Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1(a) through (~~c~~**d**) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: ~~One Corporate Center, Mail Station 8121~~ **P.O. Box 9005**, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: ~~Three (3)~~ **Two (2)** wave solder machines (ID #184842, 2700001~~), 184737)~~
Parameter: The VOC input including flux and thinner delivered to the applicators minus the VOC flux/thinner shipped out in the waste stream
Limit: No more than 35.4 tons as a group per twelve (12) consecutive month period with compliance determined at the end of each month
Less than 25 tons as individuals per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

Part 70 Quarterly Report

Source Name: Delco Electronics Corporation
Source Address: 2100 East Lincoln Road, Kokomo, Indiana 46904-9005
Mailing Address: P.O. Box 9005, Kokomo, Indiana 46904-9005
Part 70 Permit No.: T067-6505-00061
Facility: Wave Solder Machine #1015805
Parameter: The VOC input minus the VOC shipped out in the waste stream (including flux and thinner)
Limit: Less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Conclusion

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 067-17930-00061. The operation of this proposed modification shall be subject to the conditions of the proposed Part 70 Minor Permit Modification No. 067-17932-00061.

Appendix A: Emission Calculations
VOC Emissions
From the Wave Solder Machine #1015805

Company Name: Delco Electronics Corporation
Address: 2100 East Lincoln Road, Kokomo, IN 46904
MPM: 067-17932-00061
Reviewer: ERG/YC
Date: September 4, 2003

*Material	Density (lbs/gal)	Weight % Volatile (H_2O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of Material	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
Thinner - Isoproply Alcohol	6.59	100.00%	0.0%	100.0%	600	0.00044	6.59	1.74	41.75	7.62
Flux - Kester 958	6.72	91.16%	0.0%	91.2%	600	0.00168	6.13	6.19	148.46	27.1
Total								**7.93**		**34.7**

* The thinner or fluxapplied does not contain any HAP.

METHODOLOGY

Pounds of VOC per Gallon of Material = Density (lbs/gal) x Weight % Organics
PTE of VOC (lbs/hr) = Pounds of VOC per Gallon of Material (lb/gal) x Max. Throughput (unit/hr) x Max. Usage (gal/unit)
PTE of VOC (lbs/day) = Pounds of VOC per Gallon of Material (lb/gal) x Max. Throughput (unit/hr) x Max. Usage (gal/unit) x 24 hr/day
PTE of VOC (tons/yr) = Pounds of VOC per Gallon of Material (lb/gal) x Max. Throughput (unit/hr) x Max. Usage (gal/unit) x 8760 hr/yr x 1 ton/2000 lbs